ATPL MASS & BALANCE

- BLOCK FUEL IS THE TOTAL FUEL (INCLUDES TAXI OR RAMP FUEL)
- BASIC EMPTY WEIGHT ALREADY CONTAINS RESERVE FUEL
- TAKE OFF FUEL HAS TAXI FUEL BURNT.

FORMULA

1. MTOW
(VALUE)

2. RTOW
(VALUE)

3. MLW+ TRIP FUEL
(VALUE)

4. RLW+ TRIP FUEL
(VALUE)

5. MZFW+ TAKE OFF FUEL
(VALUE)

ATOW = LEAST VALUE

ATOW = DOW + PAYLOAD + TAKE OFF FUEL .

WHERE PAYLOAD + TAKE OFF FUEL = USEFUL LOAD.

ALSO, MZFW= DOW + PAYLOAD